SECTION 1 GENERAL MANUFACTURER, IMPORTER, AND PROCESSOR INFORMATION

PART	A G	GENERAL REPORTING INFORMATION
1.01	Thi	s Comprehensive Assessment Information Rule (CAIR) Reporting Form has been
CBI	соп	pleted in response to the <u>Federal Register Notice of $[0]4$ $[1]0$ $[8]9$ wear</u>
[_]	a.	If a Chemical Abstracts Service Number (CAS No.) is provided in the Federal
		Register, list the CAS No $[0]7]6]4]7]1]-[6]2]-[5]$
	b.	If a chemical substance CAS No. is not provided in the <u>Federal Register</u> , list either (i) the chemical name, (ii) the mixture name, or (iii) the trade name of the chemical substance as provided in the <u>Federal Register</u> .
		(i) Chemical name as listed in the rule Benzene, 1, 3 Diisocyanatomethyl
		(ii) Name of mixture as listed in the rule NA
		(iii) Trade name as listed in the rule Toluene Diisocyanate (Hypol 3000
	c.	If a chemical category is provided in the <u>Federal Register</u> , report the name of the category as listed in the rule, the chemical substance CAS No. you are reporting on which falls under the listed category, and the chemical name of the substance you are reporting on which falls under the listed category.
		Name of category as listed in the rule NA
		CAS No. of chemical substance $[0]2]6]4]7]1]-[6]2]-[5]$
		Name of chemical substance Benzene, 1, 3 Diisocyanatomethyl
1.02 CBI		ntify your reporting status under CAIR by circling the appropriate response(s).
[_]	Imp	orter 2
	Pro	cessor <u>3</u>
	X/P	manufacturer reporting for customer who is a processor 4
	\$	processor reporting for customer who is a processor
90]-	890000618
[_]	Mark	(X) this box if you attach a continuation sheet.

1.03	Does the substance you are reporting on have an " x/p " designation associated with it in the above-listed Federal Register Notice?
CBI	Yes
[_]	No
1.04	a. Do you manufacture, import, or process the listed substance and distribute it under a trade name(s) different than that listed in the Federal Register Notice? Circle the appropriate response.
<u>CBI</u>	Yes
1	No 2
	b. Check the appropriate box below:
	[] You have chosen to notify your customers of their reporting obligations
	Provide the trade name(s)
	· · · · · · · · · · · · · · · · · · ·
	[] You have chosen to report for your customers
	[_] You have submitted the trade name(s) to EPA one day after the effective date of the rule in the <u>Federal Register</u> Notice under which you are reporting.
1.05	If you buy a trade name product and are reporting because you were notified of your reporting requirements by your trade name supplier, provide that trade name.
CBI	Trade name Hypol 3000
[_]	Is the trade name product a mixture? Circle the appropriate response.
	Yes
	No 2
1.06	Certification The person who is responsible for the completion of this form must sign the certification statement below:
<u>CBI</u> [<u> </u>]	"I hereby certify that, to the best of my knowledge and belief, all information entered on this form is complete and accurate."
	Stephen Bennett NAME Stephen Bennett Signature 9-6-89 DATE SIGNED
	Safety/Environmental Engineer (704) 873 - 1001 TITLE TELEPHONE NO.
[_]	Mark (X) this box if you attach a continuation sheet.

1.07 <u>CBI</u> []	Exemptions From Reporting If with the required information or within the past 3 years, and this for the time period specified in are required to complete section now required but not previously submissions along with your Section	n a CAIR Rois informant the rule of this submitted	eporting Form for the tion is current, accu , then sign the certi s CAIR form and provi . Provide a copy of	e listed substance brate, and complete fication below. You de any information
	"I hereby certify that, to the binformation which I have not income to EPA within the past 3 years aperiod specified in the rule."	cluded in	this CAIR Reporting F	Form has been submitted
	NAME		SIGNATURE	DATE SIGNED
	TITLE	()	TELEPHONE NO.	DATE OF PREVIOUS SUBMISSION
1.08 <u>CBI</u> [_]	CBI Certification If you have certify that the following state those confidentiality claims whimmed the confidentiality claims whimmed the confidentiality claims whimmed the confidential continue to take the been, reasonably ascertainable to using legitimate means (other that is judicial or quasi-judicial profined to the confidential conformation is not publicly available to the confidential conformation is not publicly available to the confidential con	ements tru ich you ha to protect ese measur by other p han discov oceeding) ilable els	thfully and accurated ve asserted. the confidentiality es; the information sersons (other than go ery based on a showing without my company's ewhere; and disclosure	of the information, is not, and has not overnment bodies) by ng of special need in consent; the
	NAME		SIGNATURE	DATE SIGNED
	TITLE	(TELEPHONE NO.	
[_]	Mark (X) this box if you attach	a continua	tion sheet.	

PART	B CORPORATE DATA
1.09	Facility Identification
<u>CBI</u>	Name [7]] M M E R J P A T J I E N T J C A R E J D J I V. J J J A Address [5] 6 0 1 1 2 0 1 1 4 1 1 M 1 0 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	[S]t]a]t]e]s]v]i]]]]e]_]_]_]_]_]_]]]]]]]]]]]
	[<u>N]C</u>] [<u>2]8</u>] <u>6</u>] <u>7</u>][<u>]</u>]_]
	Dun & Bradstreet Number
	Employer ID Number
	Other SIC Code
1.10	Company Headquarters Identification
<u>CBI</u>	Name [7]
	(D] o] v] e] r]]]]]]]]]]]]]]]]]
	[<u>0]H</u>] [<u>4]4]6]2][]]] State</u> Zip
	Dun & Bradstreet Number
 [<u></u>]	Mark (X) this box if you attach a continuation sheet.

1.11	Parent Company Identification
<u>CBI</u>	Name [B]R]T]S]T]O]L]-]M]Y]E]R]S]-]-]-]-]-]-]-]-]-]-]-]-]-]-]-]-]-]-
	[<u>N]e]w]]]Y]o]r]k]</u>]]]]]]]]]]]]]]]]]]]]]]]]
	$[\frac{\overline{N}}{\overline{N}}] \underline{\overline{Y}} $ $[\overline{\underline{1}}] \underline{0}] \underline{\overline{1}}] \underline{5}] \underline{4}][\underline{\underline{1}}] \underline{\underline{1}}]$
	Dun & Bradstreet Number $[\underline{0}]\underline{0}]-[\underline{1}]\underline{2}]\underline{8}]-[\underline{8}]\underline{4}]\underline{9}]\underline{7}$
1.12	Technical Contact
CBI	Name $[S]t]e[p]h[e]n] M] B[e]n[n]e[t]t] = [$
	[S]t]a]t]e]s]v]i]]]e]_[]_[]_]_]_]_]]]]]]]]]
	$\begin{bmatrix} \overline{N} \end{bmatrix} \overline{C} $ $\begin{bmatrix} \overline{2} \end{bmatrix} \overline{8} \overline{] \overline{6} \overline{]} \overline{7} \overline{]} - [\underline{}] \underline{} \overline{]} \underline{} \phantom{$
	Telephone Number $[\overline{7}]\overline{0}]\overline{4}$] – $[\overline{8}]\overline{7}]\overline{3}$] – $[\overline{1}]\overline{0}]\overline{0}]\overline{1}$
1.13	This reporting year is from [\overline{0}] 1 [\overline{8}] 8] to [\overline{1}] 2] [\overline{8}] 8 Mo. Year Mo. Year
[_]	Mark (X) this box if you attach a continuation sheet.

1.14	Facility Acquired If you purchased this facility during the reporting year, provide the following information about the seller:
<u>CBI</u>	Name of Seller [_]_]_]_]_]_]_]_]_]_]_]]]]]]]]]]]]]]]]
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_] [_]_]_]_]_]_]]]]] State
	Employer ID Number
	Date of Sale
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]]]]]]]]]]
	Telephone Number
1.15	Facility Sold If you sold this facility during the reporting year, provide the following information about the buyer:
CBI	Name of Buyer [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_] [_]_]_]_][_]_]_]_] State
	Employer ID Number
	Date of Purchase
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]]]]]
	Telephone Number
[_]	Mark (X) this box if you attach a continuation sheet.

CBI		
 [Classification	Quantity (kg/yr)
· — ·	Manufactured	0.0
	Imported	. 0.0
	Processed (include quantity repackaged)	1 / 7
	Of that quantity manufactured or imported, report that quantity:	
	In storage at the beginning of the reporting year	0.0
	For on-site use or processing	
	For direct commercial distribution (including export)	0.0
	In storage at the end of the reporting year	0.0
	Of that quantity processed, report that quantity:	
	In storage at the beginning of the reporting year	24
	Processed as a reactant (chemical producer)	. 0.0
	Processed as a formulation component (mixture producer)	. 147
	Processed as an article component (article producer)	
	Repackaged (including export)	
	In storage at the end of the reporting year	

 $^[\ \]$ Mark (X) this box if you attach a continuation sheet.

or a chem	cure If the listed sum component of a mixture nical. (If the mixture component chemical for	e, provide the composition is	following info s variable, rep	rmation for each	n component
[] 	Component Name		Supplier Name	Compositio (specify	age % on by Weight precision, 5% ± 0.5%)
2,4.	-Toluenediisocyanate	W.R	. Grace	20	%
2,6	Toluenediisocyanate	W.R	. Grace	80	%
				Total	100%
·					

2.04	State the quantity of the listed substance that your facility manuf or processed during the 3 corporate fiscal years preceding the repo descending order.		
<u>CBI</u>			
[_]	Year ending	$\cdots [\overline{1}] \overline{2}] [$ Mo.	$\frac{8}{\text{Year}}$
	Quantity manufactured	0.0	kg
	Quantity imported	0.0	kg
	Quantity processed	0.0	kg
	Year ending		8 <u> 6</u> Year
	Quantity manufactured	0.0	kg
	Quantity imported	0.0	kg
	Quantity processed	198	kg
	Year ending	$\begin{bmatrix} \boxed{1} \boxed{2} \end{bmatrix} \begin{bmatrix} \boxed{1} \end{bmatrix}$	8 <u>5</u> Year
	Quantity manufactured	0.0	kg
	Quantity imported	0.0	kg
	Quantity processed	NA	kg
2.05 CBI	Specify the manner in which you manufactured the listed substance. appropriate process types.	Circle all	
[_]	Continuous process	• • • • • • • • • • •	1
	Semicontinuous process	• • • • • • • • • • • • • • • • • • • •	2
	Batch process	• • • • • • • • • • •	(3
[_]	Mark (X) this box if you attach a continuation sheet.		

2.06 CBI	Specify the manner in appropriate process t		he listed substance.	Circle all
[_]	Continuous process .	• • • • • • • • • • • • • • • • • • • •		
	Semicontinuous proces	s		2
	Batch process			
2.07 CBI	State your facility's substance. (If you are question.)			
[_]	Manufacturing capacity	,		kg/yr
	Processing capacity			kg/yr
2.08 CBI	If you intend to incremanufactured, imported year, estimate the industry	l, or processed at any	time after your curr	ent corporate fiscal
[_]		Manufacturing Quantity (kg)	Importing Quantity (kg)	Processing Quantity (kg)
	Amount of increase	NA	NA	NA
	Amount of decrease	NA NA	NA	NA
			-	
[_]	Mark (X) this box if y	ou attach a continuat	ion sheet.	

2.09	listed substanc substance durin	e, specify the number of days you manufactured of the reporting year. Also specify the average s type was operated. (If only one or two opera	or processed number of h	the listed ours per
<u>CBI</u>			Days/Year	Average Hours/Day
	Process Type #1	(The process type involving the largest quantity of the listed substance.)		
		Manufactured	NA	NA
		Processed	150/yr	8/day
	Process Type #2	(The process type involving the 2nd largest quantity of the listed substance.)		
		Manufactured	NA	NA
		Processed	NA	NA
	Process Type #3	(The process type involving the 3rd largest quantity of the listed substance.)		
		Manufactured	NA	NA
		Processed	NA	NA
2.10 <u>CBI</u> []	substance that chemical. Maximum daily in	am daily inventory and average monthly inventory was stored on-site during the reporting year in enventory	the form of	
	Mark (X) this bo	ox if you attach a continuation sheet.		

CAS No.	Chemical Name	Byproduct, Coproduct or Impurity	Concentration (%) (specify ± % precision)	Source oproducts products Impurit
UK	UK	<u>UK</u>	<u>UK</u>	UK
		· · · · · · · · · · · · · · · · · · ·		
		· · · · · · · · · · · · · · · · · · ·		
		· · · · · · · · · · · · · · · · · · ·		
Use the followard B = Byproduct C = Coproduct I = Impurity		e byproduct, copro	oduct, or impurity	y:
B = Byproduct C = Coproduct	-	e byproduct, copro	oduct, or impurit	y:
B = Byproduct C = Coproduct	-	e byproduct, copro	oduct, or impurity	y:
B = Byproduct C = Coproduct	-	e byproduct, copro	oduct, or impurity	y:
B = Byproduct C = Coproduct	-	e byproduct, copro	oduct, or impurity	y:
B = Byproduct C = Coproduct	-	e byproduct, copro	oduct, or impurity	y:
B = Byproduct C = Coproduct	-	e byproduct, copro	oduct, or impurity	y:

2.12 <u>CBI</u> [_]	Existing Product Types imported, or processed the quantity of listed total volume of listed quantity of listed subslisted under column b., the instructions for fu	using the listed su substance you use f substance used duri stance used captivel , and the types of e	bstance during the ror each product type ng the reporting yeary on-site as a percend-users for each pr	eporting year. List as a percentage of the r. Also list the ntage of the value		
	a.	b.	c.	d.		
		% of Quantity	W 6 0			
		Manufactured, Imported, or	% of Quantity Used Captively			
	Product Types ¹	Processed	On-Site	Type of End-Users ²		
	D	0.0		00		
	В	96	4	C\$		
	<pre> "Use the following code A = Solvent B = Synthetic reactant C = Catalyst/Initiator Sensitizer D = Inhibitor/Stabiliz Antioxidant E = Analytical reagent </pre>	: :/Accelerator/ :er/Scavenger/	L = Moldable/Castab M = Plasticizer N = Dye/Pigment/Col O = Photographic/Re and additives P = Electrodepositi Q = Fuel and fuel a			
	<pre>F = Chelator/Coagulant G = Cleanser/Detergent</pre>		<pre>R = Explosive chemicals and additives S = Fragrance/Flavor chemicals</pre>			
	H = Lubricant/Friction		T = Pollution contr			
	agent		U = Functional flui			
	<pre>I = Surfactant/Emulsif J = Flame retardant</pre>	ier	<pre>V = Metal alloy and W = Rheological mod</pre>			
	K = Coating/Binder/Adh	nesive and additives				
	² Use the following code	es to designate the	type of end-users:			
	I = Industrial	CS = Cons				
	CM = Commercial		r (specify)			
[_]	Mark (X) this box if yo	ou attach a continua	tion sheet.			

2.13 <u>CBI</u> []	Expected Product Types import, or process usin corporate fiscal year. import, or process for substance used during tused captively on-site types of end-users for explanation and an exam	ng the listed substa For each use, specethe each use as a percethe reporting year. as a percentage of each product type.	nce at any time after ify the quantity you ntage of the total vo Also list the quanti the value listed unde	your current expect to manufacture, lume of listed ty of listed substance r column b., and the
	a.	b.	c.	d.
	Product Types ¹	% of Quantity Manufactured, Imported, or Processed	% of Quantity Used Captively On-Site	Type of End-Users ²
	В	96	4	CS
	¹ Use the following code A = Solvent B = Synthetic reactant C = Catalyst/Initiator	:	L = Moldable/Castabl M = Plasticizer N = Dye/Pigment/Colo	e/Rubber and additive
	Sensitizer D = Inhibitor/Stabiliz Antioxidant E = Analytical reagent F = Chelator/Coagulant G = Cleanser/Detergent H = Lubricant/Friction agent I = Surfactant/Emulsif J = Flame retardant K = Coating/Binder/Add	: :/Sequestrant :/Degreaser i modifier/Antiwear	<pre>U = Functional fluid V = Metal alloy and W = Rheological modi</pre>	on/Plating chemicals ditives cals and additives chemicals chemicals s and additives additives additives
	² Use the following code I = Industrial CM = Commercial	CS = Cons		 .
[_]	Mark (X) this box if yo	ou attach a continua	tion sheet.	

•		Average % Composition of	
Product Type ¹	Final Product's Physical Form ²	Listed Substance in Final Product	Type of End-Users
В	F4	.0002	CS
¹ Use the following cod	es to designate pro		(D.)
A = Solvent		L = Moldable/Castable	/Rubber and add
<pre>B = Synthetic reactan C = Catalyst/Initiato</pre>		<pre>M = Plasticizer N = Dye/Pigment/Color</pre>	ant/Ink and add
Sensitizer	oi/Acceletatoi/	0 = Photographic/Repr	
D = Inhibitor/Stabili	zer/Scavenger/	and additives	ographic chemic
Antioxidant	Zei/Scavengei/	P = Electrodeposition	/Plating chemic
E = Analytical reagen	t	Q = Fuel and fuel add	
F = Chelator/Coagulan		R = Explosive chemica	
G = Cleanser/Detergen		S = Fragrance/Flavor	
H = Lubricant/Frictio			
agent	modification and a second	U = Functional fluids	
I = Surfactant/Emulsi	fier	V = Metal alloy and a	
J = Flame retardant		W = Rheological modifi	
	hesive and additive	es X = Other (specify) _	
² Use the following cod	es to designate the	e final product's physic	al form:
A = Gas	F2 = Cry	stalline solid	
B = Liquid	F3 = Gra		
C = Aqueous solution		er solid	
D = Paste	G = Ge]	*	
E = Slurry F1 = Powder	H = Oth	er (specify)	
³ Use the following cod			
I = Industrial	CS = Cor		
CM = Commercial	H = Oth	er (specify)	

CBI	Circle all applicable modes of transportation used to deliver bulk shipments of the listed substance to off-site customers.								
[_]	Truc	k		1					
	Rail	car		2					
	Barg	e, Vessel		3					
	Pipeline								
	Plane								
	0the:	r (specify)		6					
2.16 CBI	or p	omer Use Estimate the quantity of the listed substance repared by your customers during the reporting year for us and use listed (i-iv).							
[_]	Cate	gory of End Use							
	i.	Industrial Products							
		Chemical or mixture	kg	/yr					
		Article	kg	/yr					
	ii.	Commercial Products							
		Chemical or mixture	kg	/yr					
		Article	kg	/yr					
	iii.	Consumer Products							
		Chemical or mixture	kg	/yr					
		Article	kg	/yr					
	iv.	Other							
		Distribution (excluding export)	kg	/yr					
			kg	/yr					
		Export							
			147 kg						

PART A GENERAL DATA			
for each major s The average pric substance.	tity purchased and the averagource of supply listed. Prodes is the market value of the	uct trades are treated a	s purchases.
Source of Supply		Quantity (kg)	Average Price (\$/kg)
The listed subst	ance was manufactured on-site		
The listed subst	ance was transferred from a y site.		
The listed subst	ance was purchased directly for importer.	:om 	
The listed substantiation of re	ance was purchased from a epackager.		_
The listed substance.	ance was purchased from a mix	ture 147	NA
.02 Circle all applic BI your facility.	cable modes of transportation	used to deliver the lis	ted substance to
Truck	•	•••••	(1
Railcar		• • • • • • • • • • • • • • • • • • • •	2
Barge, Vessel	,		
Pipeline		•••••	4
Plane			5
Other (specify)			6
##	10000 1000 1000 1000 1000 1000 1000 10		

3.03 CBI	a.	Circle all applicable containers used to transport the listed substance to your facility.	
[_]		Bags	
		Boxes	2
		Free standing tank cylinders	3
		Tank rail cars	4
		Hopper cars	5
		Tank trucks	6
		Hopper trucks	7
	•	Drums	8
		Pipeline	9
		Other (specify)	10
	b.	If the listed substance is transported in pressurized tank cylinders, tank rail cars, or tank trucks, state the pressure of the tanks.	
		Tank cylinders mm	lig
		Tank rail cars mm	Hg
		Tank trucks mm	Hg
_1	Mark	(X) this box if you attach a continuation sheet.	

of the m average amount o	ixture, the nampercent composi	ne of its supplier(s	form of a mixture, list the or manufacturer(s), an est ne listed substance in the morting year.	imate of the
] Trade	Name	Supplier or Manufacturer	Average % Composition by Weight (specify ± % precision)	Amount Processed (kg/yr)
Нуро	1 3000	W.R. Grace	9.`0	147
				· · · · · · · · · · · · · · · · · · ·

.05 <u>BI</u>	reporting year in the form	listed substance used as a soft a class I chemical, class y weight, of the listed substance.	ss II chemical, or polymer, and
_,		Quantity Used (kg/yr)	% Composition by Weight of Listed Substance in Raw Material (specify \pm % precision
	Class I chemical	147	9.0%
			,
	Class II chemical		
			,
	Polymer	· ————————————————————————————————————	

SECTION	٨.	DHACLUY	/CHEMTCAL	DDODE	DTTEC
SECTION	4	PRINICAL	/UMBBILLAL	PRUPP.	\mathbf{r}_{i}

Con	eral	Ins	truc	tio	ns:
OCII	IELGI	THO			

If you are reporting on a mixture as defined in the glossary, reply to questions in Section 4 that are inappropriate to mixtures by stating "NA -- mixture."

For questions 4.06-4.15, if you possess any hazard warning statement, label, MSDS, or other

notic facsi	e that addresses the informule in lieu of answering	rmation requested, y those questions whi	you may submit a copy of ch it addresses.	r reasonable
PART	A PHYSICAL/CHEMICAL DATA	SUMMARY		
4.01 CBI	Specify the percent puri- substance as it is manufa substance in the final pr import the substance, or	actured, imported, or roduct form for manu	or processed. Measure ufacturing activities,	the purity of the at the time you
l J		Manufacture	Import	Process
	Technical grade #1	NA% purity	NA % purity	NA % purity
	Technical grade #2	NA % purity	NA % purity	NA % purity
	Technical grade #3	<u>NA</u> % purity	NA% purity	NA % purity
4.02	1 Major = Greatest quanti Submit your most recently substance, and for every	ty of listed substar	Safety Data Sheet (MSDS	ted or processed.) for the listed
	an MSDS that you developed version. Indicate whether appropriate response.	ed and an MSDS devel	loped by a different so	urce, submit your
	Yes	• • • • • • • • • • • • • • • • • • • •		(1
	No	• • • • • • • • • • • • • • • • • • • •		2
	Indicate whether the MSDS	S was developed by y	our company or by a di	fferent source.
	Your company	• • • • • • • • • • • • • • • • • • • •		1
	Another source	• • • • • • • • • • • • • • • • • • • •		2
]	Mark (X) this box if you	attach a continuati	ion sheet.	

4.03	Submit a copy or reasonable facsimile of any hazard information (other than an MSDS) that is provided to your customers/users regarding the listed substance or any formulation containing the listed substance. Indicate whether this information has been submitted by circling the appropriate response.							
	Yes			• • • • • • • • • • • • •		1		
	No	• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •		(2		
4.04 CBI [_]	For each activity that uses the listed substance, circle all the applicable number(s) corresponding to each physical state of the listed substance during the activity listed. Physical states for importing and processing activities are determined at the time you import or begin to process the listed substance. Physical states for manufacturing, storage, disposal and transport activities are determined using the final state of the product.							
		-	Phys	sical State	Liquified			
	Activity	Solid	Slurry	Liquid	Gas	Gas		
	Manufacture	1	2	3	4	5		
	Import	1	2	3	4	5		
	Process	1	2	(3)	4	5		
	Store	I	2	3	4	5		
	Dispose	Œ	2	3	4	(<u>3</u>)		
	Transport	1	2	3	4	5		

4.05 <u>CBI</u> [_]	Particle Size — If the listed substance exists in particulate form during any of the following activities, indicate for each applicable physical state the size and the percentage distribution of the listed substance by activity. Do not include particles ≥10 microns in diameter. Measure the physical state and particle sizes for importing and processing activities at the time you import or begin to process the listed substance. Measure the physical state and particle sizes for manufacturing storage, disposal and transport activities using the final state of the product.											
	Physical State		Manufacture	Import	Process	Store	Dispose	Transport				
	Dust	<1 micron	<u>NA</u>	NA	<u> NA</u>	NA	NA	NA				
		1 to <5 microns	NA	NA	NA	NA	<u>NA</u>	NA				
		5 to <10 microns	- NA	NA	NA	<u>NA</u>	NA	<u>NA</u>				
	Powder	<1 micron	NA	NA	NA	<u>NA</u>	NA	NA				
		1 to <5 microns	NA	NA	NA	<u>NA</u>	<u> </u>	NA				
		5 to <10 microns	NA	NA	<u>NA</u>	NA	<u>NA</u>	NA				
	Fiber	<1 micron	<u>NA</u>	NA	NA	NA	NA NA	NA				
		1 to <5 microns	NA	NA	NA	<u>NA</u>	NA_	NA				
		5 to <10 microns	NA	<u>NA</u>	<u>NA</u>	NA	<u>NA</u>	NA				
	Aerosol	<1 micron	NA	<u>N</u> A	NA	NA	NA	NA				
		1 to <5 microns	NA	NA	NA	<u>NA</u>	NA	NA				

[_]	Mark (X)	this box	if you	attach a	continua	tion sheet.		

NA

5 to <10 microns

NA

NA

NA

NA

NA

SECTION	5	ENVIRONMENTAL	FATE

In	dicate the rate constants for the following tran	nsformation process	es.
a.	Photolysis:		
	Absorption spectrum coefficient (peak)	UK (1/M cm) a	it <u>UK</u>
	Reaction quantum yield, 6	<u>UK</u> a	it <u>UK</u>
	Direct photolysis rate constant, k_p , at	UK 1/hr	UK la
b.	Oxidation constants at 25°C:		
	For 10_2 (singlet oxygen), k_{ox}	UK	
	For RO ₂ (peroxy radical), k _{ox}	UK	
c.	Five-day biochemical oxygen demand, BOD ₅	UK	
d.	Biotransformation rate constant:		
	For bacterial transformation in water, $k_b \dots$	UK	
	Specify culture	UK	
e.	Hydrolysis rate constants:		
	For base-promoted process, k _B	UK	
	For acid-promoted process, k _A	UK	
	For neutral process, k _N		
f.	Chemical reduction rate (specify conditions)		
		UK	
g.	Other (such as spontaneous degradation)	UK	

[_]	Mark (X)	this box	x if you	attach a	continuation	sheet.	

	a.	Specify the half-life	of the listed sub	stance in the followi	ng medi	ia.
		<u>Media</u>		Half-life (speci	fy unit	ts)
		Groundwater		UK		
		Atmosphere		UK		<u> </u>
		Surface water		UK	· 	
		Soil		UK		
	b.	Identify the listed su life greater than 24 h	ubstance's known t nours.	ransformation product	s that	have a half-
		CAS No.	Name	Half-life (specify units)		<u>Media</u>
		UK	UK	UK	in _	UK
		UK	UK	UK	in _	UK
		UK	UK	UK	in	UK
		UK	UK	UK	in _	UK
5.03	Spe	cify the octanol-water	partition coeffic	ient, K _{ow}	UK	at 25°C
	Met	hod of calculation or d	etermination		UK	
5.04	Spe	cify the soil-water par	tition coefficien	t, K _d	UK	at 25°C
	Soi	l type	•••••		UK	
5.05		cify the organic carbon ficient, K _{oc}			UK	at 25°C
J. 03		· ·				

Bioconcentration Factor		<u>Species</u>		<u>Test¹</u>
<u>UK</u>		UK		UK
				
				444
¹ Use the following codes t	o designate		 st:	
F = Flowthrough S = Static	-	••		
S = Static				
•				
		•		

		Quantity Sold or	Total Sales
	Market	Transferred (kg/yr)	Value (\$/yr)
	Retail sales		
	Distribution Wholesalers		
	Distribution Retailers		
	Intra-company transfer		
	Repackagers		
	Mixture producers		
	Article producers		****
	Other chemical manufacturers or processors		
	Exporters		
	Other (specify)		
31	Substitutes List all known commer for the listed substance and state t feasible substitute is one which is in your current operation, and which performance in its end uses.	the cost of each substitut economically and technolo	e. A commercially gically feasible to uct with comparable
.05 <u>BI</u>]	for the listed substance and state t feasible substitute is one which is in your current operation, and which	the cost of each substitut economically and technolo	e. A commercially gically feasible to u
31	for the listed substance and state t feasible substitute is one which is in your current operation, and which performance in its end uses.	the cost of each substitut economically and technolo	e. A commercially gically feasible to uct with comparable
31	for the listed substance and state to feasible substitute is one which is in your current operation, and which performance in its end uses. Substitute	the cost of each substitut economically and technolo results in a final produ	e. A commercially gically feasible to unct with comparable Cost (\$/kg)
31	for the listed substance and state to feasible substitute is one which is in your current operation, and which performance in its end uses. Substitute	the cost of each substitut economically and technolo results in a final produ	e. A commercially gically feasible to u ct with comparable Cost (\$/kg)
31	for the listed substance and state to feasible substitute is one which is in your current operation, and which performance in its end uses. Substitute	the cost of each substitut economically and technolo results in a final produ	e. A commercially gically feasible to u ct with comparable Cost (\$/kg)
31	for the listed substance and state to feasible substitute is one which is in your current operation, and which performance in its end uses. Substitute	the cost of each substitut economically and technolo results in a final produ	e. A commercially gically feasible to u ct with comparable Cost (\$/kg)
31	for the listed substance and state to feasible substitute is one which is in your current operation, and which performance in its end uses. Substitute	the cost of each substitut economically and technolo results in a final produ	e. A commercially gically feasible to u ct with comparable Cost (\$/kg)

SECTION 7 MANUFACTURING AND PROCESSING INFORMATION

General Instructions:

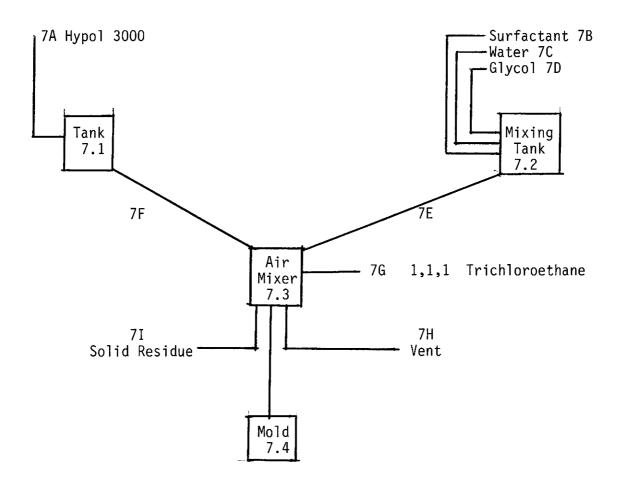
For questions 7.04-7.06, provide a separate response for each process block flow diagram provided in questions 7.01, 7.02, and 7.03. Identify the process type from which the information is extracted.

PART A MANUFACTURING AND PROCESSING PROCESS TYPE DESCRIPTION

7.01 In accordance with the instructions, provide a process block flow diagram showing the major (greatest volume) process type involving the listed substance.

CBI

Process type Polyureathane Foam Pad Process

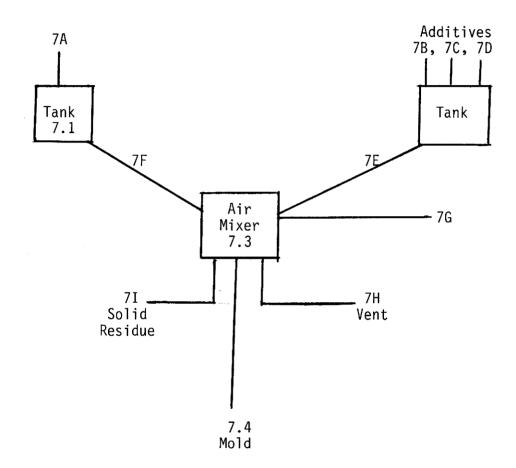


[_] Mark (X) this box if you attach a continuation sheet.

7.03 In accordance with the instructions, provide a process block flow diagram showing all process emission streams and emission points that contain the listed substance and which, if combined, would total at least 90 percent of all facility emissions if not treated before emission into the environment. If all such emissions are released from one process type, provide a process block flow diagram using the instructions for question 7.01. If all such emissions are released from more than one process type, provide a process block flow diagram showing each process type as a separate block.

CBI

Process type Polyureathane Foam Process



7.04 CBI	process block	typical equipment typ k flow diagram(s). If cess type, photocopy t	a process block flo	w diagram is prov	vided for more					
[_]	Process type Polyureathane Foam Pad Process									
	Unit Operation ID Number	Typical Equipment Type	Operating Temperature Range (°C)	Operating Pressure Range (mm Hg)	Vessel <u>Compositio</u> n					
	7.1	Drum	Ambient	NA	Steel					
	7.2	Mixing Tank	Ambient	NA	Steel Stainless					
	7.3	Air Mixer	Ambient	NA	Steel					
	7.4	Mold	Ambient	Atmosphere	Plastic					
			·							
	·									
	And the state of t			-						
				•						

		low diagram is provided for momplete it separately for each		e, photocopy th
CBI				
	Process type	Polyureathane Foam Pad	Process	
	Process Stream ID Code	Process Stream Description	Physical State ¹	Stream Flow (kg/yr
	7H	Local Exhaust Vent	GC	NA
	7I	Liquid Residue	OL	3.7/yr
		Solid Residue	SO	3.7/yr
		-		
				
	GC = Gas (conde GU = Gas (uncon SO = Solid SY = Sludge or AL = Aqueous 1: OL = Organic 1:	lquid	e and pressure) are and pressure)	

_ ^J		e <u>Polyureatha</u> ,		ss d.	
	Process Stream ID Code	b. Known Compounds ¹	Concen- trations ^{2,3} (% or ppm)	Other Expected Compounds	e. Estimated Concentration (% or ppm)
	7H	Air (E)(V)	NA	NA	NA
		Hypol (TDI)	NA	NA NA	NA
		Trichloroethlene	<u>NA</u>	NA	NA
	7I	Hypol (TDI)(A)(V)		NA	NA
		Surfactant	NA	NA	NA
		Water (E)(V)	1.5%	NA	NA
		Glycol	NA	NA	NA
		Trichloroethlene	1.87ppm	NA	NA
			<u> </u>		
 06	continued b	elow	· · · · · · · · · · · · · · · · · · ·		

7.06 ((continue	ed)
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	COMETANO	~~,

¹For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column b. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

Additive kage Number	Components of Additive Package	Concentrations (% or ppm)
1	NA	NA
	NA	NA
	NA NA	NA
2	NA NA	NA
	NA	NA
	NA	NA
3	NA	NA
	NA	NA
	NA	NA
4	NA	NA
	NA	NA
	NA	NA
5	NA	NA
sha fallawing and		tion was determined:
the following code	s to designate how the concentra	tion was determined:

²

V = Volume

W = Weight

[_]	Mark (X	() this	box if	f you	attach	а	continuation	S	heet.			

³Use the following codes to designate how the concentration was measured:

SECTION 8	RESIDUAL TREATMENT	GENERATION,	CHARACTERIZATION,	TRANSPORTATION,	AND
	MANAGEMENT				

General Instructions:

For questions 8.04-8.06, provide a separate response for each residual treatment block flow diagram provided in question 8.01, 8.02 or 8.03. Identify the process type from which the information is extracted.

For questions 8.05-8.33, the Stream Identification Codes are those process streams listed in either the Section 7 or Section 8 block flow diagrams which contain residuals for each applicable waste management method.

For questions 8.07-8.33, if residuals are combined before they are handled, list those Stream Identification Codes on the same line.

Questions 8.09-8.33 refer to the waste management activities involving the residuals identified in either the Section 7 or Section 8 block flow diagrams. Not all Stream Identification Codes used in the sample answers (e.g., for the incinerator questions) have corresponding process streams identified in the block flow diagram(s). These Stream Identification codes are for illustrative purposes only.

For questions 8.11-8.33, if you have provided the information requested on one of the EPA Office of Solid Waste surveys listed below within the three years prior to your reporting year, you may submit a copy or reasonable facsimile in lieu of answering those questions which the survey addresses. The applicable surveys are: (1) Hazardous Waste Treatment, Storage, Disposal, and Recycling Survey; (2) Hazardous Waste Generator Survey; or (3) Subtitle D Industrial Facility Mail Survey.

[_]	Mark (X)	this box	if you	attach a	continuation	sheet.	

8.01	In accordance with the instructions, provide a residual treatment block flow diagram which describes the treatment process used for residuals identified in question 7.01.
CBI	which describes the treatment process used for residuals identified in question 7.01.
[_]	Process type Polyureathane Foam Pad Process

Landfill 8.2

Holding Container 8.1

7I **-**

[_] Mark (X) this box if you attach a continuation sheet.

8.05 <u>CBI</u>	diagram process type.	(s). If a r type, photo (Refer to th	esidual treated copy this que e instruction	am identified : atment block fi uestion and com ons for further	low diagram is mplete it sepa rexplanation a	provided for rately for ea	more than on ch process
[_]	Process		Polyure	eathane Foam Pa	ad Process		· · · · · · · · · · · · · · · · · · ·
	a. Stream ID Code	b. Type of Hazardous Waste	Physical State of Residual ²	d. Known Compounds ³	e. Concentra- tions (% or ppm) 4,5,6	f. Other Expected Compounds	g. Estimated Concen- trations (% or ppm)
	7 <u>I</u>	UK	(S0)	TDI	22ppm	None	NA
				Surfactant	NA	None	NA
				Water	NA	None	NA
				Glycol	NA	None	NA
	·			<u>Irichloroether</u>		None	NA
3.05	continue	ed below					

**B.05 (continued) **Use the following codes to designate the type of hazardous waste: I = Ignitable C = Corrosive R = Reactive E = EP toxic T = Toxic H = Acutely hazardous **Use the following codes to designate the physical state of the residual: GC = Gas (condensible at ambient temperature and pressure) GU = Gas (uncondensible at ambient temperature and pressure) SO = Solid SY = Sludge or slurry AL = Aqueous liquid OL = Organic liquid

IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene)

8.05 continued below

[_] Mark (X) this box if you attach a continuation sheet.

8.05	conti	nued)
0.00		

8

³For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column d. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

	Additive Package Number		Components of Additive Package	_	Concentrations (% or ppm)
	1				
				_	
	2			_	
	3			_	
				_	
				_	
	4			_	
				_	
	5				
				-	
	⁴ Use the followin	g codes to d	designate how the conc	entration wa	s determined:
	A = Analytical r E = Engineering	esult			
.05	continued below				
	Mark (X) this box	if you atta	ach a continuation she	et.	
			56		

8.05	(continued)
0.02	(CONTINUES)

 $^5\mbox{Use}$ the following codes to designate how the concentration was measured:

V = Volume

W = Weight

⁶Specify the analytical test methods used and their detection limits in the table below. Assign a code to each test method used and list those codes in column e.

<u>Code</u>	Method	Detection Limit (± ug/l)
1	Laboratory Analysis	NA
2		
3		
4		
5		
_6		

[_]	Mark (X) this box	if you attach a	a continuation sheet.

8.06	diagram process	erize each pr (s). If a re type, photoc (Refer to the	esidual trea	atment block sestion and c	flow diagr omplete it	am is pro separate	vided for mo ly for each	re than one process
CBI								
[_]	Process	type	··· <u>Polyu</u>	reathane Foan	n Pad Proce	255		
	a.	b.	c.	d.	е.		f. Costs for	g.
	Stream ID Code	Waste Description Code	Management Method Code ²	Residual Quantities (kg/yr)	Manag of Resid On-Site		Off-Site Management (per kg)	Changes in Management Methods
	7I	B84	ID	<u>UK</u>	NA	100	UK	None
					· · · · · · · · · · · · · · · · · · ·			
								
								
		was and the second						
								·
			web 4-4		-		•	
								and the second s
		e codes provi e codes provi						
[_]	Mark (X)) this box if	you attach	a continuat	ion sheet.			

WASTE DESCRIPTION CODES

These waste description codes were developed specifically for this survey to supplement the descriptions listed with the RCRA and other waste codes. (These waste description codes are not regulatory definitions.)

WASTE DESCRIPTION CODES FOR HAZARDOUS WASTE DESCRIBED BY A SINGLE RCRA F, K, P, OR U WASTE CODE

- A01 Spent solvent (F001-F005, K086)
- A02 Other organic liquid (F001-F005, K086)
- A03 Still bottom (F001-F005, K086)
- A04 Other organic sludge (F001-F005, K086)
- A05 Wastewater or aqueous mixture
- A06 Contaminated soil or cleanup residue
- A07 Other F or K waste, exactly as described*
- A08 Concentrated off-spec or discarded product
- **Empty containers**
- "Exactly as described" means that the waste matches the description of the RCRA waste code.
- A10 Incinerator ash
- Solidified treatment residue A11
- Other treatment residue (specify in A12 'Facility Notes'')
- Other untreated waste (specify in "Facility Notes")

INORGANIC LIQUIDS—Waste that is primarily Inorganic and highly fluid (e.g., aqueous), with low suspended inorganic solids and low organic content

- 801 Aqueous waste with low solvents
- 802 Aqueous waste with low other toxic organics
- B03 Spent acid with metals
- B04 Spent acid without metals
- 805 Acidic aqueous waste
- 806 Caustic solution with metals but no cvanides
- 807 Caustic solution with metals and cyanides
- 808 Caustic solution with cyanides but no metais
- **B09 Spent caustic**
- 810 Caustic aqueous waste
- B11 Aqueous waste with reactive sulfides
- B12 Aqueous waste with other reactives (e.g., explosives)
- 813 Other aqueous waste with high dissolved solids
- B14. Other aqueous waste with low dissolved solids
- B15 Scrubber water
- 816 Leachate
- 817 Waste liquid mercury
- B18 Other inorganic liquid (specify in "Facility Notes")

INORGANIC SLUDGES-Waste that is primarily inorganic, with moderate-to-high water content and low organic content; pumpable.

- B19 Lime sludge without metals
- 820 Lime sludge with metals/metal hydroxide sludge
- **B21** Wastewater treatment sludge with toxic organics
- 822 Other wastewater treatment sludge
- 823 Untreated plating sludge without cyanides
- 824 Untreated plating sludge with cyanides
- B25 Other sludge with cyanides
- **B26** Sludge with reactive suifides
- **B27** Sludge with other reactives
- B28 Degreasing sludge with metal scale or filings
- B29 Air pollution control device sludge (e.g., fly ash, wet scrubber sludge)
- B30 Sediment or lagoon dragout contaminated with organics
- B31 Sediment or lagoon dragout contaminated with inorganics only

- B32 Drilling mud
- 833 Asbestos slurry or sludge
- **B34** Chloride or other brine sludge
- Other inorganic sludge (specify in **B35** 'Facility Notes")

INORGANIC SOLIDS—Waste that is primarily inorganic and solid, with low organic content and low-to-moderate water content; not pumpable.

- 836 Soil contaminated with organics
- **B37** Soil contaminated with inorganics only
- **B38** Ash, slag, or other residue from incineration of wastes
- **B39** Other "dry" ash, slag, or thermal residue
- "Dry" lime or metal hydroxide solids **B40** chemically "fixed"
- 841 "Dry" lime or metal hydroxide solids not 'fixed''
- **B42** Metal scale, filings, or scrap
- 843 Empty or crushed metal drums or containers
- **B44** Batteries or battery parts, casings, cores
- R45 Spent solid filters or adsorbents **B46** Asbestos solids and debns
- 847 Metai-cyanide salts/chemicals
- 848 Reactive cyanide salts/chemicals
- **B49** Reactive sulfide salts/chemicals
- B50 Other reactive salts/chemicals
- B51 Other metal salts/chemicals **B52**
- Other waste inorganic chemicals **B53** Lab packs of old chemicals only
- 854 Lab packs of debns only
- 855 Mixed lab packs
- **B56** Other inorganic solids (specify in
 - "Facility Notes")

INORGANIC GASES—Waste that is primarily inorganic with a low organic content and is a gas at atmospheric pressure.

B57 Inorganic gases

ORGANIC LIQUIDS-Waste that is primarily organic and is highly fluid, with low inorganic solids content and low-to-moderate water content

- 858 Concentrated solvent-water solution
- 859 Halogenated (e.g., chlorinated) solvent
- B60 Nonhalogenated solvent

- Halogenated/nonhalogenated solvent
- B62 Oil-water emulsion or mixture
- 663 Waste oil

861

- Concentrated aqueous solution of other 864 organics
- 865 Concentrated phenolics
- **B66** Organic paint, ink, lacquer, or varnish
- B67 Adhesives or expoxies
- B68 Paint thinner or petroleum distillates
- Reactive or polymerizable organic liquid **B69**
- Other organic liquid (specify in "Facility Notes")

ORGANIC SLUDGES—Waste that is primarily organic, with low-to-moderate inorganic solids content and water content; pumpable.

- Still bottoms of halogenated (e.g., chlori-
- nated) solvents or other organic liquids **B72** Still bottoms of nonhalogenated solvents or other organic liquids
- 873 Oily sludge
- 874 Organic paint or ink sludge
- **B75** Reactive or polymerizable organics
- 876 Resins, tars, or tarry sludge 877 Biological treatment sludge
- 878 Sewage or other untreated biological
- sludge 879
- Other organic sludge (specify in 'Facility Notes')

ORGANIC SOLIDS—Waste that is primarily organic and solid, with low-to-moderate inorganic content and water content; not pumpable.

- 880 Halogenated pesticide solid
- 881 Nonhalogenated pesticide solid
- RAZ Solid resins or polymerized organics
- 883 Spent carbon
- 884 Reactive organic solid
- **B85** Empty fiber or plastic containers
- RAR Lab packs of old chemicals only
- **B87** Lab packs of debns only
- B88 Mixed lab packs
- **B89** Other halogenated organic solid
- **B90** Other nonhalogenated organic solid

ORGANIC GASES-Waste that is primarily organic with low-to-moderate inorganic content and is a gas at atmospheric pressure.

B91 Organic gases

EXHIBIT 8-2. (Refers to question 8.06(c))

MANAGEMENT METHODS

	MANAGEMENT	METH	ODS
м1.	- Discharge to publicly owned	D	
111	wastewater treatment works		very of solvents and liquid organics reuse
M2 =	Discharge to surface water under		Fractionation
	NPDES		Batch still distillation
M3 =	Discharge to off-site, privately		Solvent extraction
_	owned wastewater treatment works		Thin-film evaporation
M4 =	Scrubber: a) caustic; b) water;		Filtration
	c) other		Phase separation
M5 =	<pre>Vent to: a) atmosphere; b) flare;</pre>	7SR	Dessication
	c) other (specify)		Other solvent recovery
M6 =	Other (specify)		·
		Reco	very of metals
TREA	ATHENT AND RECYCLING	1MR	Activated carbon (for metals
T1			recovery)
	neration/thermal treatment	2MR	
7.T	Liquid injection	2	recovery)
3I	Rotary or rocking kiln		Electrolytic metal recovery
31	Rotary kiln with a liquid injection unit	4MR	
41	Two stage	5MR	(202 mc(d25
5I	Fixed hearth	4 MD	recovery)
61	Multiple hearth	6MR	(
7I		7 ы р	recovery)
81	Infrared	/ MK	Ultrafiltration (for metals recovery)
	Fume/vapor	SMR	Other metals recovery
101	Pyrolytic destructor	OHE	other metals recovery
111	Other incineration/thermal	Vast	ewater Treatment
	treatment		r each wastewater treatment type
			listed below (1WT - 66WT) specify
Reus	e as fuel		a) tank; or b) surface impoundment
	Cement kiln		(i.e., 63WTa)
2RF	Aggregate kiln		
3RF	Asphalt kiln	Equa	lization
4RF	Other kiln	1WT	Equalization
5RF	Blast furnace		
6RF	Sulfur recovery furnace		ide oxidation
/RF	Smelting, melting, or refining		Alkaline chlorination
	furnace		0zone
	Coke oven		Electrochemical
9RF	Other industrial furnace	5WT	Other cyanide oxidation
1085	Industrial boiler	_	
	Utility boiler	Gene	ral oxidation (including
	Process heater		nfection)
1381	Other reuse as fuel unit	6WT	
Pual	Blending	7WT	Ozonation
	Fuel blending	8WT	
IFD	rder orending	9WT	Other general oxidation
Solid	dification	Ch	
15	· · · · · · · · · · · · · · · · · · ·	tour	ical precipitation1
2S	Cement or cement/silicate processes Pozzolanic processes		Lime
3S	Asphaltic processes		Sodium hydroxide
4S	Thermoplastic techniques		Soda ash Sulfide
55	Organic polymer techniques		Other chemical precipitation
6S	Jacketing (macro-encapsulation)	T-4 # T	other chemical precipitation
7S	Other solidification	Chro	mium reduction
			Sodium bisulfite
			Sulfur dioxide
		- U # 1	22777 4144146

EXHIBIT 8-2. (continued)

MANAGEMENT METHODS

17WT Ferrous sulfate 18WT Other chromium reduction

Complexed metals treatment (other than chemical precipitation by pH adjustment)
19WT Complexed metals treatment

Emulsion breaking 20WT Thermal 21WT Chemical

22WT Other emulsion breaking

Adsorption 23WT Carbon adsorption 24WT Ion exchange 25WT Resin adsorption 26WT Other adsorption

Stripping 27WT Air stripping 28WT Steam stripping 29WT Other stripping

Evaporation
30WT Thermal
31WT Solar
32WT Vapor recompression
33WT Other evaporation

Filtration
34WT Diatomaceous earth
35WT Sand
36WT Multimedia
37WT Other filtration

Sludge dewatering
38WT Gravity thickening
39WT Vacuum filtration
40WT Pressure filtration (belt, plate
and frame, or leaf)
41WT Centrifuge
42WT Other sludge dewatering

Air flotation 43WT Dissolved air flotation 44WT Partial aeration 45WT Air dispersion 46WT Other air flotation

Oil skimming 47WT Gravity separation 48WT Coalescing plate separation 49WT Other oil skimming

Other liquid phase separation 50WT Decanting 51WT Other liquid phase separation

Biological treatment
52WT Activated sludge
53WT Fixed film-trickling filter
54WT Fixed film-rotating contactor
55WT Lagoon or basin, aerated
56WT Lagoon, facultative
57WT Anaerobic
58WT Other biological treatment

Other wastewater treatment
59WT Wet air oxidation
60WT Neutralization
61WT Nitrification
62WT Denitrification
63WT Flocculation and/or coagulation
64WT Settling (clarification)
65WT Reverse osmosis
66WT Other wastewater treatment

OTHER VASTE TREATMENT

1TR Other treatment 2TR Other recovery for reuse

ACCUMULATION

1A Containers 2A Tanks

STORAGE

1ST Container (i.e., barrel, drum)
2ST Tank
3ST Waste pile
4ST Surface impoundment
5ST Other storage

DISPOSAL

1D Landfill

2D Land treatment

3D Surface impoundment (to be closed as a landfill)

4D Underground injection well

¹Chemical precipitation is a treatment operation whereby the pH of a waste is adjusted to the range necessary for removal (precipitation) of contaminants. However, if the pH is adjusted solely to achieve a neutral pH, THE OPERATION SHOULD BE CONSIDERED NEUTRALIZATION (60WT).

8.22 <u>CBI</u>	(by capacity) i	s that are us	n parameters for each of the three largest sed on-site to burn the residuals identified in ent block flow diagram(s).						
[_]	Combustion Chamber Temperature (°C)		amber	Temp	tion of erature nitor	In Com	Residence Time In Combustion Chamber (seconds)		
	Incinerator	Primary	Secondary	Primary	Secondary	Primary	Secondary		
	1				-				
	2				· Address				
	3								
	Indicate by circli	if Office ong the appr	of Solid Waste ropriate resp	e survey ha	s been submit	ted in lieu	of response		
	Yes	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • •	• • • • • • • • • • • • •	• • • • • • • • • • •			
	No	• • • • • • • • •	• • • • • • • • • • • • •		• • • • • • • • • • • • •	••••••	2		
8.23 <u>CBI</u>	Complete the fo are used on-sit treatment block	e to burn t	the residuals	nree larges identified	t (by capacit in your proc	y) incinerat ess block or Types	residual		
	Incinerator		Air Pol Control	llution Device		Emission Avail	s Data		
	1		NA	·		NA			
	2		NA			NA NA			
	3		NA			NA			
	Indicate by circli	if Office ong the appr	of Solid Waste copriate respo	e survey ha	s been submit	ted in lieu	of response		
					• • • • • • • • • • • • • • • • • • • •				
					• • • • • • • • • • • • • • • • • • • •				
	¹ Use the follow				lution contro				
	S = Scrubber (i E = Electrostat O = Other (spec	tic precipi	e of scrubber	in parent	hesis)				
<u></u> 1	Mark (X) this bo	ox if you a	ttach a conti	nuation she	eet.				

SECTION 9 WORKER EXPOSURE

Questions 9.03-9.25 apply only to those processes and workers involved in manufacturing or processing the listed substance. Do not include workers involved in residual waste treatment unless they are involved in this treatment process on a regular basis (i.e., exclude maintenance workers, construction workers, etc.).

[] Mark (X) this box if you attach a continuation sheet.

PART A EMPLOYMENT AND POTENTIAL EXPOSURE PROFILE

Data Element	ata are Ma Hourly Workers	intained for: Salaried Workers	Year in Which Data Collection Began	Number Years Rec Are Maint
Date of hire	X	X	1978	Permanen
Age at hire	Х	X	1978	_Permanen
Work history of individual before employment at your facility	X	X	1978	Permanen
Sex	X	X	1978	Permanen
Race	X	X	1978	<u>Permanen</u>
Job titles	X	X	1978	_Permanen
Start date for each job title	X	X	1978	Permanen
End date for each job title	X	X	1978	Permanen
Work area industrial hygiene monitoring data	X	NA	1988	Permanen
Personal employee monitoring data	X	NA	<u> 1988 · </u>	_Permanen
Employee medical history	X	X	1978	Permanen
Employee smoking history	NA	NA	NA	<u>Permanen</u>
Accident history	X	X	1978	<u>Permanen</u>
Retirement date	<u> </u>	X	1978	<u>Permanen</u>
Terminati on date	X	X	1978	Permanen
Vital status of retirees	NA	NA	NA	Permaner
Cause of death data	NA	<u>NA</u>	NA	Permaner

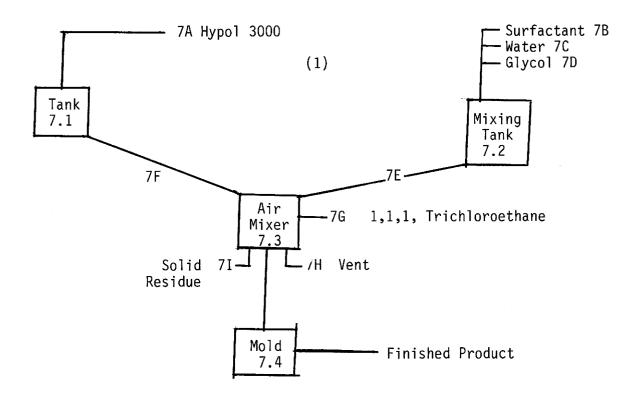
<u>BI</u> —,	in which you engage.				
J	a.	b.	c.	d.	e.
	Activity	Process Category	Yearly Quantity (kg)	Total Workers	Total Worker-Hou
	Manufacture of the	Enclosed			
	listed substance	Controlled Release			
		0pen			-
	On-site use as	Enclosed	NA	NA	NA
	reactant	Controlled Release	NA	NA	NA
		0pen	147	3	6000
	On-site use as	Enclosed			
	nonreactant	Controlled Release			
		0pen		·	
	On-site preparation	Enclosed			
	of products	Controlled Release			
		0pen		- P-	
	•				
	·			•	

encompas	a descriptive sses workers wh substance.	job title for each labor category at your facility that o may potentially come in contact with or be exposed to the
Labor Cat	egory	Descriptive Job Title
A		Heel/Elbow Operator
В		
С		
D		
E		
F		
G		
Н		
I		
J		

9.04 In accordance with the instructions, provide your process block flow diagram(s) and indicate associated work areas.

CBI

[Process type Polyureathane Foam Pad Process



^[] Mark (X) this box if you attach a continuation sheet.

9.05	may potentially come additional areas not	work area(s) shown in question 9.04 that encompass workers who in contact with or be exposed to the listed substance. Add an shown in the process block flow diagram in question 7.01 or question and complete it separately for each process type.
CBI	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	quantities and complete it acquirectly for each process type.
[_]	Process type	Polyureathane Foam Pad Process
	Work Area ID	Description of Work Areas and Worker Activities Process area, packaging finished product (workers dispense
	1	chemical into molds, package finished product).
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	10	
	·	

9.06 CBI	each labor of come in cont	e following tab category at you tact with or be e it separately	r facility tha exposed to the	t enco e list	mpasses worken ed substance.	s who may pot Photocopy th	entially			
[_]	Process type	Pol	yureathane Foa	m Pad	Process					
	Work area	• • • • • • • • • • • • • • • • • • • •		• • • • • •	1					
	Labor Category	Number of Workers Exposed	Mode of Exposu (e.g., dire skin contac	ect	Physical State of Listed Substance ¹	Average Length of Exposure Per Day ²	Number of Days per Year Exposed			
	A	3	inhalation		GU	E	150			
										
	Use the fol the point o	lowing codes to f exposure:	o designate the	e phys:	ical state of	the listed su	ibstance at			
	tempe GU = Gas (tempe	condensible at rature and pres uncondensible a rature and pres	ssure) at ambient ssure;	AL : OL :	= Sludge or sl = Aqueous liqu = Organic liqu = Immiscible l	iid iid				
	inclus SO = Solid	includes fumes, vapors, etc.)				(specify phases, e.g., 90% water, 10% toluene)				
	² Use the fol	lowing codes to	designate ave	erage :	length of expo	sure per day:				
		tes or less than 15 minute ng 1 hour	es, but not		Greater than exceeding 4 h	nours				
	C = Greater	than one hour, ng 2 hours	, but not		exceeding 8 h Greater than	nours				
[_]	Mark (X) this	s box if you at	tach a continu	ation	sheet.	······························				

9.07	Weighted Average (egory represented in question 9.06 TWA) exposure levels and the 15-min stion and complete it separately for	nute peak exposure levels.
<u>CBI</u>	area.		
[_]	Process type	Polyureathane Foam Pad Process	S
	Work area		1
	Labor Category	8-hour TWA Exposure Level (ppm, mg/m ³ , other-specify)	15-Minute Peak Exposure Leve (ppm, mg/m³, other-specify)
	A	.0048ppm	NA .
			
			•

80	If you monitor worke	er exposur	e to the li	sted substa	nce, compl	ete the fo	llowing table
Ī							
_]	Sample/Test	Work Area ID	Testing Frequency (per year)	Number of Samples (per test)	Who	Analyzed In-House (Y/N)	Number of Years Record: Maintained
	Personal breathing zone	1	1	1	A		permanently
	General work area (air)						
	Wipe samples						
	Adhesive patches						
	Blood samples						
	Urine samples						-
	Respiratory samples						
	Allergy tests						
	Other (specify)						
	Other (specify)		*****				
	Other (specify)						
						-	
	Use the following control of the second of t	l hygienis		takes the	monitorin	g samples:	

_]	Sample Type	Sa	ampling and Analyt	ical Methodolo	<u>gy</u>				
	Personal Breathing ZoneHPLC Filter with gas chromatography analysis								
					,				
10	If you conduct perso specify the followin				ubstance,				
<u>I</u>				Averaging					
_]	Equipment Type	Detection Limit ²	Manufacturer	Time (hr)	Model Number				
	C	A	Gilian	8	HFS113AVT				
					· · · · · · · · · · · · · · · · · · ·				
					. <u> </u>				
					· · · · · · · · · · · · · · · · · · ·				
		odes to designate n							
	Use the following codes to designate personal air monitoring equipment types: A = Passive dosimeter								
	<pre>B = Detector tube C = Charcoal filtration tube with pump</pre>								
	D = Other (specify) Use the following codes to designate ambient air monitoring equipment types:								
	E = Stationary monitors located within work area								
	F = Stationary monitors located within facility G = Stationary monitors located at plant boundary								
	H = Mobile monitoring equipment (specify) I = Other (specify)								
	Use the following codes to designate detection limit units:								
	A = ppm B = Fibers/cubic cer C = Micrograms/cubic	ntimeter (f/cc) c meter (µ/m³)							

l	Test Description		Fr (weekly, mont	equency hly, yearly, etc.)
	NA	,	NA	
	•			

Work Engin Venti Lo Ge Ot Vesse Mechai	ss type area eering Controls lation: cal exhaust neral dilution her (specify)				Year Upgraded
Engin Venti Lo Ge Ot Vesse Mechai	eering Controls lation: cal exhaust neral dilution	Used (Y/N)	Year Installed	Upgraded	
Venti Lo Ge Ot Vesse Mechai	lation: cal exhaust neral dilution	<u>(Y/N)</u>	Installed		
Lo Ge Ot Vesse Mechai paci	cal exhaust neral dilution	Y	1982		
Ge Ot Vesse Mechar pac	neral dilution	Υ	<u>1982</u>		
0t Vesse Mecha paci				Y	1988
Vesse Mecha pac	her (specify)				
Mecha pac					
paci	l emission controls				
0ther	nical loading or kaging equipment				
	(specify)				

 $[\ \]$ Mark (X) this box if you attach a continuation sheet.

9.13	Describe all equipment or process modifications you have meaning to the reporting year that have resulted in a reduct the listed substance. For each equipment or process modified the percentage reduction in exposure that resulted. Photocomplete it separately for each process type and work area	ion of worker exposure to ication described, state copy this question and
CBI	complete it departedly for each process type and work area	•
[_]	Process type Polyureathane Foam Pad Process	
	Work area	1
	Equipment or Process Modification	Reduction in Worker Exposure Per Year (%)
	Local exhaust has been upgraded.	50
		The second secon
		•

[in each work area i	n order to reduce or eliminat	pment that your workers wear or use their exposure to the listed it separately for each process to
_]	Process type	Polyureathane Foam Pad P	rocess
	Work area	•••••••••••	1
			Wear or
		Equipment Types	Use (Y/N)
		Respirators	N
		Safety goggles/glasses	<u> </u>
		Face shields	N
		Coveralls	N
		Bib aprons	Υ
		Chemical-resistant gloves	ΥΥ
		Other (specify)	
			•

Process type Polyureathane Foam Pad Process Vork Respirator Average Tested Type of Area Type Usage (Y/N) Fit Te. 1	9.15	process typ respirators tested, and	use respirators when we, the work areas when used, the average used the type and frequence separately for each	re the respirat age, whether or cy of the fit t	ors are us	sed, the type respirators w	of ere fit
Work Respirator Average Tested Type of Area Type Usage¹ (Y/N) Fit Tested 1 NA NA NA NA NA 1 Use the following codes to designate average usage: A = Daily B = Weekly C = Monthly D = Once a year E = Other (specify) 2 Use the following codes to designate the type of fit test: QL = Qualitative	CBI						
Work Respirator Average Tested Type of Area Type Usage (Y/N) Fit Tested Is Type of Area Is Type of Is Tested	[_]	Process type	e Polyurea	thane Foam Pad	Process		
1 NA NA NA NA 1 Use the following codes to designate average usage: A = Daily B = Weekly C = Monthly D = Once a year E = Other (specify) 2 Use the following codes to designate the type of fit test: QL = Qualitative					Tested	Type of Fit Test ²	Frequency of Fit Tests (per year)
A = Daily B = Weekly C = Monthly D = Once a year E = Other (specify) 2 Use the following codes to designate the type of fit test: QL = Qualitative		1	NA	NA	NA		NA
A = Daily B = Weekly C = Monthly D = Once a year E = Other (specify) 2 Use the following codes to designate the type of fit test: QL = Qualitative							
A = Daily B = Weekly C = Monthly D = Once a year E = Other (specify) 2 Use the following codes to designate the type of fit test: QL = Qualitative							
		$E = 0$ ther (2 Use the fol	specify)lowing codes to desig	mate the type	of fit tes	t:	

.19 BI	Describe all of the work eliminate worker exposure authorized workers, mark monitoring practices, proquestion and complete it	to the listed su areas with warning wide worker train	ubstance (e.g. ng signs, insu ning programs,	, restrict en ure worker det etc.). Phot	trance only to ection and ocopy this
_]	Process type Poly	vureathane Foam Pa	ad Process		
	Work area			1	
	1. Exposure monitoring				
	2. Limited access				
	3. Training program				
		-			27-2-1
20	Indicate (X) how often you leaks or spills of the list separately for each process type Poly	sted substance. ss type and work /ureathane Foam Pa	Photocopy thi area. ad Process	ask used to cl s question an	ean up routine d complete it
20	leaks or spills of the li separately for each proces Process type Poly Work area	sted substance. ss type and work /ureathane Foam Pa Less Than	Photocopy thi area. ad Process 1-2 Times	s question an	More Than 4
20	leaks or spills of the li separately for each proce Process type Poly Work area	sted substance. ss type and work /ureathane Foam Pa	Photocopy thi area. ad Process	s question an	d complete it
20	leaks or spills of the liseparately for each proce Process type Poly Work area	sted substance. ss type and work /ureathane Foam Pa Less Than	Photocopy thi area. ad Process 1-2 Times	s question an	More Than 4
20	leaks or spills of the liseparately for each process type Poly Work area Housekeeping Tasks Sweeping Vacuuming	sted substance. ss type and work /ureathane Foam Pa Less Than	Photocopy thi area. ad Process 1-2 Times	s question an	More Than 4
20	leaks or spills of the liseparately for each process type Poly Work area Housekeeping Tasks Sweeping Vacuuming Water flushing of floors	sted substance. ss type and work /ureathane Foam Pa Less Than	Photocopy thi area. ad Process 1-2 Times	s question an	More Than 4
20	leaks or spills of the liseparately for each proce Process type Poly Work area Housekeeping Tasks Sweeping Vacuuming Water flushing of floors Other (specify)	sted substance. ss type and work /ureathane Foam Pa Less Than Once Per Day	Photocopy thi area. ad Process 1-2 Times	s question an	More Than 4
20	leaks or spills of the liseparately for each process type Poly Work area Housekeeping Tasks Sweeping Vacuuming Water flushing of floors	sted substance. ss type and work /ureathane Foam Pa Less Than	Photocopy thi area. ad Process 1-2 Times	s question an	More Than 4
20	leaks or spills of the liseparately for each proce Process type Poly Work area Housekeeping Tasks Sweeping Vacuuming Water flushing of floors Other (specify)	sted substance. ss type and work /ureathane Foam Pa Less Than Once Per Day	Photocopy thi area. ad Process 1-2 Times	s question an	More Than 4
20	leaks or spills of the liseparately for each proce Process type Poly Work area Housekeeping Tasks Sweeping Vacuuming Water flushing of floors Other (specify)	sted substance. ss type and work /ureathane Foam Pa Less Than Once Per Day	Photocopy thi area. ad Process 1-2 Times	s question an	More Than 4
20	leaks or spills of the liseparately for each proce Process type Poly Work area Housekeeping Tasks Sweeping Vacuuming Water flushing of floors Other (specify)	sted substance. ss type and work /ureathane Foam Pa Less Than Once Per Day	Photocopy thi area. ad Process 1-2 Times	s question an	More Than 4

9.21	Do you have a written medical action plan for responding to routine or emergency exposure to the listed substance?
	Routine exposure
	Yes 1
	No 2
	Emergency exposure
	Yes 1
	No 2
	If yes, where are copies of the plan maintained?
	Routine exposure:
	Emergency exposure:
9.22	Do you have a written leak and spill cleanup plan that addresses the listed substance? Circle the appropriate response.
	Yes I
	No 2
	If yes, where are copies of the plan maintained?
	Has this plan been coordinated with state or local government response organizations? Circle the appropriate response.
	Yes
	No 2
9.23	Who is responsible for monitoring worker safety at your facility? Circle the appropriate response.
	Plant safety specialist
	Insurance carrier 2
	OSHA consultant 3
	Other (specify) 4
[_]	Mark (X) this box if you attach a continuation sheet.

SECTION 10 ENVIRONMENTAL RELEASE

General Instructions:

Complete Part E (questions 10.23-10.35) for each non-routine release involving the listed substance that occurred during the reporting year. Report on all releases that are equal to or greater than the listed substance's reportable quantity value, RQ, unless the release is federally permitted as defined in 42 U.S.C. 9601, or is specifically excluded under the definition of release as defined in 40 CFR 302.3(22). Reportable quantities are codified in 40 CFR Part 302. If the listed substance is not a hazardous substance under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and, thus, does not have an RQ, then report releases that exceed 2,270 kg. If such a substance however, is designated as a CERCLA hazardous substance, then report those releases that are equal to or greater than the RQ. The facility may have answered these questions or similar questions under the Agency's Accidental Release Information Program and may already have this information readily available. Assign a number to each release and use this number throughout this part to identify the release. Releases over more than a 24-hour period are not single releases, i.e., the release of a chemical substance equal to or greater than an RQ must be reported as a separate release for each 24-hour period the release exceeds the RQ.

For questions 10.25-10.35, answer the questions for each release identified in question 10.23. Photocopy these questions and complete them separately for each release.

10.01	Where is your facility located? Circle all appropriate responses.	
<u>CBI</u>		
[_]	Industrial area)
	Urban area	!
	Residential area	} -
	Agricultural area	Ļ
	Rural area	(ز
	Adjacent to a park or a recreational area	ó
	Within 1 mile of a navigable waterway	7
	Within 1 mile of a school, university, hospital, or nursing home facility	3
	Within 1 mile of a non-navigable waterway	9
	Other (specify)10)

	Specify the exact location of your facility (from central point where process unit is located) in terms of latitude and longitude or Universal Transverse Mercader (UTM) coordinates.							
	Latitude	••••••		, <u> </u>				
	Longitude		0	· · · · · · · · · · · · · · · · · · ·				
	UTM coordinates Zone	, North	ing, Ea:	sting				
10.03	If you monitor meteorological cond the following information.	ditions in the vicin	ity of your faci	lity, provide				
	Average annual precipitation	Average annual precipitation inches/yea						
	Predominant wind direction							
10.04	Indicate the depth to groundwater	below your facility	•					
	Depth to groundwater	• • • • • • • • • • • • • • • • • • • •		meters				
				· .				
10.05	For each on-site activity listed,	indicate (V/N/NA) =	ll routine meles					
<u>CBI</u>	listed substance to the environmen Y, N, and NA.)	(Refer to the in	nstructions for	ses of the a definition of				
<u>cbi</u>	listed substance to the environmen Y, N, and NA.)	it. (Refer to the in	nstructions for a	a definition of				
_	listed substance to the environmen	et. (Refer to the in Env.	ironmental Releas	a definition of seLand				
_	On-Site Activity	it. (Refer to the in	nstructions for a	a definition of				
_	Iisted substance to the environmen Y, N, and NA.) On-Site Activity Manufacturing	Envi	ironmental Releas Water NA	a definition of se				
_	listed substance to the environmen Y, N, and NA.) On-Site Activity Manufacturing Importing	Envi	ironmental Releas Water NA	a definition of seNANA				
_	listed substance to the environmen Y, N, and NA.) On-Site Activity Manufacturing Importing Processing	Env: Air NA NA Y	ironmental Releas Water NA NA N	a definition of Se Land NA NA NA				
_	listed substance to the environmen Y, N, and NA.) On-Site Activity Manufacturing Importing Processing Otherwise used	Env: Air NA NA Y NA	ironmental Releas Water NA NA NA NA NA	a definition of Land NA NA NA NA NA				
_	On-Site Activity Manufacturing Importing Processing Otherwise used Product or residual storage	Env: Air NA NA Y NA NA NA NA NA NA NA	ironmental Releas Water NA NA NA NA NA NA NA	a definition of Land NA NA NA NA NA				
<u>CBI</u>	listed substance to the environmen Y, N, and NA.) On-Site Activity Manufacturing Importing Processing Otherwise used Product or residual storage Disposal	Env: Air NA NA Y NA NA NA NA NA NA NA NA	ironmental Releas Water NA	a definition o				
_	listed substance to the environmen Y, N, and NA.) On-Site Activity Manufacturing Importing Processing Otherwise used Product or residual storage Disposal	Env: Air NA NA Y NA NA NA NA NA NA NA NA	ironmental Releas Water NA	se Land NA				
_	listed substance to the environmen Y, N, and NA.) On-Site Activity Manufacturing Importing Processing Otherwise used Product or residual storage Disposal	Env: Air NA NA Y NA NA NA NA NA NA NA NA	ironmental Releas Water NA	a definition o				

0.06	Provide the following information for the listed s of precision for each item. (Refer to the instruction an example.)		
<u>BI</u>			
]	Quantity discharged to the air	UK	kg/yr <u>+</u> _UK
	Quantity discharged in wastewaters	NA	kg/yr ± NA
	Quantity managed as other waste in on-site treatment, storage, or disposal units	NA	kg/yr ±NA
	Quantity managed as other waste in off-site treatment, storage, or disposal units	3.8	kg/yr <u>+</u> 1.0

Process type	Polyureathane Foam Pad Process	
Stream ID Code	Control Technology	Percent Efficien
7 <u>I</u>	Process developed/re-engineered to	97%
	operate at greater efficiency which	<u> </u>
	minimizes waste (i.e. new blenders,	-44
	valves, etc.).	
		· ·
	· · · · · · · · · · · · · · · · · · ·	

10.09 <u>CBI</u> []	Point Source Emissions Identify each emission point source containing the listed substance in terms of a Stream ID Code as identified in your process block or residual treatment block flow diagram(s), and provide a description of each point source. Do not include raw material and product storage vents, or fugitive emission sources (e.g., equipment leaks). Photocopy this question and complete it separately for each process type. Process type Polyureathane Foam Pad Process					
	Point Source ID Code	Description of Emission Point Source				
		Local exhaust vent				

Mark

8

this

box X

Ľ.

 $^{^4}$ Average Emission Factor — Provide estimated (\pm 25 percent) emission factor (kg of emission per kg of production of listed substance)

<u>CBI</u>	Point Source ID Code	Stack Height(m)	Stack Inner Diameter (at outlet) (m)	Exhaust Temperature (°C)	Emission Exit Velocity (m/sec)	Building <u>Height(m)</u>	Building Width(m)	Vent Type ³
	7H	7M	.203m	22°C	UK	6m	45m	٧
								
								· · ·
					<u> </u>			
÷								
			or adjacent			·		
	³ Use the following codes to designate vent type:							
	H = Hori: V = Vert							

).12	If the listed substance is emitted in particul distribution for each Point Source ID Code ide Photocopy this question and complete it separa	ntified in question 10.09.
I		
_]	Point source ID code	
	Size Range (microns)	Mass Fraction (% ± % precision)
	< 1	NA
	≥ 1 to < 10	NA NA
	≥ 10 to < 30	NA
	≥ 30 to < 50	NA NA
	≥ 50 to < 100	NA
	≥ 100 to < 500	NA
	≥ 500	NA
		Total = 100%

PART (C FUGITIVE EMISSIONS						
10.13	Equipment Leaks Complet types listed which are exp according to the specified the component. Do this fo residual treatment block f not exposed to the listed process, give an overall p exposed to the listed subs for each process type.	osed to the l weight perces r each proces low diagram(s substance. I ercentage of	listed suent of the stype is solution. Do not this is time per	bstance a e listed dentified ot includ s a batch year tha	nd which substance in your e equipmen or interstants the pro-	are in se passing process b nt types mittently cess type	rvice through lock or that are operated is
	•						
[_]	Process type Polyur Percentage of time per yea type	r that the li	sted subs	stance is 		 y Weight :	Zercent
	Pauinment Tune	Less					Greater
	Equipment Type Pump seals ¹	than 5%	<u>5-10%</u>	11-25%	<u>26-75%</u>	<u>76-99%</u>	than 99%
	Packed						
	Mechanical	<u> </u>	<u> UK</u> UK	<u>UK</u> UK	<u>UK</u> UK	<u>UK</u> UK	<u>UK</u> UK
	Double mechanical ²						
	Compressor seals ¹	UK	<u> UK</u>	<u>UK</u>	<u>UK</u>	<u>UK</u>	UK
	Flanges	<u> UK</u>	UK_	_UK	<u>UK</u>	UK	<u>UK</u>
	Valves	<u>UK</u>	ЦК_	<u>UK</u>	<u> UK</u>	<u>UK</u>	UK
	Gas ³	UK	UK	UK	UK	UK	UK
	Liquid			UK	UK		
	Pressure relief devices ⁴	UK	<u>UK</u> 1			<u>UK</u>	UK
•	(Gas or vapor only)	<u> </u>		<u>UK</u>	<u>UK</u>	<u>UK</u>	UK
	Sample connections		•				
	Gas	UK	<u> UK</u>	_UK	UK	UK	UK
	Liquid	UK	ЦК_	_UK	UK	UK	UK
	Open-ended lines ⁵ (e.g., purge, vent)				-		
	Gas	UK	UK_	UK	UK	UK	UK

10.13 continued on next page

Liquid

·		Mark	(X)	this	box	if	you	attach	а	continuation	sheet.
---	--	------	-----	------	-----	----	-----	--------	---	--------------	--------

¹List the number of pump and compressor seals, rather than the number of pumps or compressors

10.13	(continued)								
	² If double mechanical seals are operated with the barrier (B) fluid at a pressure greater than the pump stuffing box pressure and/or equipped with a sensor (S) that will detect failure of the seal system, the barrier fluid system, or both, indicate with a "B" and/or an "S", respectively								
	³ Conditions existing in the valve during normal operation								
	⁴ Report all pressure relicontrol devices	ef devices in service	, including those	equipped with					
•	⁵ Lines closed during normal operations	al operation that wou	ld be used during	maintenance					
10.14 <u>CBI</u>	Pressure Relief Devices was pressure relief devices in devices in service are contented "None" under column	dentified in 10.13 to ntrolled. If a press	indicate which p	ressure relief					
	a. Number of Pressure Relief Devices	b. Percent Chemical in Vessel ⁱ	c. Control Device	d. Estimated Control Efficiency ²					
	1	5-10	pressure	100%					
		***************************************	- un sentidatedo						
			-						
1	Refer to the table in quest heading entitled "Number of Substance" (e.g., <5%, 5-1	of Components in Serv	d the percent rangice by Weight Per	ge given under the cent of Listed					
2	The EPA assigns a control with rupture discs under nefficiency of 98 percent foundations	formal operating cond	itions. The EPA a	assigns a control					
[<u></u>] M	fark (X) this box if you at	tach a continuation	sheet.						

<u>CBI</u>	Process type	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	Polyureat	nane Foam Pa	d Process
	Equipment Type	Leak Detection Concentration (ppm or mg/m³) Measured at Inches from Source	- Detection _Device	Frequency of Leak Detection		Repairs Completed
	Pump seals					
	Packed	NA	NA	NA	NA	NA
	- Mechanical	NA	NA	NA NA	NA NA	NA NA
	- Double mechanical	NA	NA	NA	NA NA	NA NA
	Compressor seals	NA	NA	NA NA	NA	NA
	Flanges	NA	NA	NA	NA	NA
	Valves				19.8 (
	Gas	NA NA	NA	NA	. NA	NA
	Liquid	NA NA	NA	NA NA	NA	NA
	Pressure relief devices (gas or vapor only)	NA	NA	NA NA	NA	NA
	Sample connections					
	Gas _	NA	NA	<u>NA</u>	NA	NA
	Liquid _	NA NA	NA	NA	NA	NA
	Open-ended lines				•	
	Gas	<u>NA</u>	NA	NA	NA	NA
	Liquid _	NA	NA	NA NA	NA	<u>NA</u>
	1 Use the following co POVA = Portable orga FPM = Fixed point mo 0 = Other (specify)	nic vapor analyze		evice:		

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			•	flow diagram		Vessel	Vessel		Operat- ing	-				
	Vessel Type	Floating Roof Seals ²	of Stored Materials	rials' per year)	Filling Filling Rate Duration (gpm) (min) NA NA			Volume	Vessel Emission Controls	Design Flow Rate ⁵	Vent Diameter (cm)	Control Efficiency (%)	Basis for Estimate ⁶	
,	(p) <u>10psi</u>	NA	91 (9)			NA	61_	1.22	2.08	3 NA	<u>NA</u>	NA	99	С
														
	 ¹ Use th	e followi	ing codes to	designate ve	ssel typ	e:	²Use	the fo	llowing	codes to	esigna	 te floatin	roof seals	 s:
	**Use the following codes to designate vessel type: F = Fixed roof CIF = Contact internal floating roof NCIF = Noncontact internal floating roof NCIF = Noncontact internal floating roof EFR = External floating roof P = Pressure vessel (indicate pressure rating) H = Horizontal U = Underground **Use the following codes to designate floating roof seals: MS1 = Mechanical shoe, primary MS2 = Shoe-mounted secondary MS2 = Rim-mounted, secondary IM1 = Liquid-mounted resilient filled seal, primary IM2 = Rim-mounted shield VM1 = Vapor mounted resilient filled seal, primary VM2 = Rim-mounted secondary VM2 = Rim-mounted secondary VM3 = Veather shield													
	ប =	· unergro									,			
	3Indica	te weight	percent of	the listed s	substance	. Include	VMV	= Wear	ther sh	ield		arenthesis		
	³ Indica ⁴ 0ther	ite weight					VMW e the tota	= Wear l volat:	ther sha	ield anic conte	nt in pa	arenthesis		

PART	R	NON-ROUTINE	RELEASES
LWVI	Ŀ	MON-KOULING	VETEVOEO

10.23	Indicate the date and time when the release occurred and when the release ceased	or
	was stopped. If there were more than six releases, attach a continuation sheet as	nd
	list all releases.	

Release	Date Started	Time (am/pm)	Date Stopped	Time (am/pm)
1	NA	NA	NA	NA
2	NA	NA	NA	NA
3	NA	NA	NA	NA
4	NA	NA	NA	NA
5	NA	NA	NA	NA
6	NA	NA	NA	NA

10.24 Specify the weather conditions at the time of each release.

Release	Wind Speed (km/hr)	Wind Direction	Humidity(%)	Temperature (°C)	Precipitation (Y/N)
1		******			
2					
3					
4				· · · · · · · · · · · · · · · · · · ·	
5					
6				-	maken i den de

	Mark	(X)	this	box	if	you	attach	a	continuation :	sheet.	
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